

IN THE SPECIFICATION:

Please REPLACE the paragraph beginning at page 6, line 6, with the following paragraph:

The pressure connector 106 of the sample analyzer head-~~103~~ 102 is attached to a stepper motor syringe (piston) assembly 112 with a short tube 113. The electrical power for the stepper motor 114 is activated by a motor control board 115 with a variable speed control switch. The total system is synchronized by a master power and an electronic timer control board 116. The photo diode 110 can be replaced by a photon counting module for more sensitive emission measurements.

Please REPLACE the paragraph beginning at page 6, line 14, with the following paragraph:

As shown in Figure 3, the level of fluid in the reservoir and uptake channel is determined by timers or by two miniature sensors 117 (sonic) in the sampler analyzer head which are connected to the stepper motor board-~~117~~ 115.

Please REPLACE the paragraph beginning at page 17, line 18, with the following paragraph:

Assays described above are based upon type 1 disposable tips in which the reagent tag is on a matrix surrounded by the tip wall. Another type of assay is based on type 2 disposable tips, which increases the sensitivity and decreases error in the-~~assy~~ assay.

Please REPLACE the paragraph beginning at page 19, line 12, with the following paragraph:

Details of measurements taken in the ATA of the disposable tip type 2 can be seen in Figure-~~6c~~ Figure 6C. The exciting laser light-~~Exciting laser light~~ 200 is focused in the center of the bubble 171, which is the ATA, while the emission wavelength from the bubble is captured by the detector lens 108 without any interference from building materials used in making the tip.